

## Expectation 1: Environmental Issues

The student will investigate and analyze environmental issues from local to global perspectives.

INDICATOR	OBJECTIVES	RESOURCES
<b>1. The student will investigate and analyze environmental issues from local to global perspectives (such as world and local populations, global and regional food production and distribution, global and local pollution, global and local epidemics, biodiversity) to develop and implement a local action project that protects, sustains, or enhances the natural environment.</b>	<ul style="list-style-type: none"><li>• Identify an environmental issue.<ul style="list-style-type: none"><li>○ Identify an environmental phenomenon as an event, an issue or a problem</li><li>○ Distinguish among fact and opinion, beliefs and values and discuss their source.</li><li>○ Identify a variety of viewpoints surrounding a particular issue.</li></ul></li><li>• Develop and write research questions related to an environmental issue.<ul style="list-style-type: none"><li>○ Identify the elements of the problem, issue or solution.<ul style="list-style-type: none"><li>▪ Knowledge related to the problem or issue or solution</li><li>▪ Opinions and attitudes related to the problem, issue or solution</li><li>▪ Behaviors related to the problem, issue or solution</li><li>▪ Physical characteristics associated with the problem, issue or solution</li></ul></li></ul></li><li>• Given a specific issue, communicate the issue, the stakeholders involved and the stakeholders' beliefs and values.</li><li>• Design and conduct the research –<ul style="list-style-type: none"><li>○ Identify relevant and reliable sources of data.</li><li>○ Collect data using proper protocols.</li><li>○ Identify sources of reliable information related to the problem, issue or solution.</li><li>○ Identify and select sources that represent a variety of viewpoints.</li><li>○ Identify resources available through local, state and federal government agencies, scientific organizations, nonprofits,</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b><i>Investigating and Evaluating Environmental Issues and Actions</i></b> (2003), Hungerford. H., Litherland, R., Volk, T., Ramsey, J.M., Peyton, R.B., Stipes Publishing L.L.C.</li><li>• Become a <b>Maryland Green School</b></li><li>• <b><i>Firestorm: Thinking Critically about Environmental Issues.</i></b> <i>Firestorm</i> is a role-playing and decision-making simulation.</li><li>• <b>BioEd Online:</b> See Hot Topics</li></ul> <p><b>Global Issues Environment</b> This is the United States Department of State's Global Environmental Issues web site. The site contains copies of recent publications, reports, press briefings, fact sheets, and other types of documentation regarding current global environmental issues and policy. The site also contains an extensive bibliography of environmental resources and links to all types of related sites.</p>

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	<ul style="list-style-type: none"><li>resource professionals, expert individuals.</li><li>○ Conduct research according to library/media/technology standards.</li><li>○ Distinguish among surveys, questionnaires and opinionnaires.</li><li>○ Conduct the research.</li><li>• Use data and references to interpret findings to form conclusions.<ul style="list-style-type: none"><li>○ Distinguish among results, conclusions and inferences.</li><li>○ Use a variety of methods to analyze and display data.</li><li>○ Use data to support a position and to refute the positions of others.</li><li>○ Defend the validity of the data.</li><li>○ Communicate the results of research.</li></ul></li><li>• Make recommendations supported by data to help address or resolve the issue.</li><li>• Engage in peer review.</li><li>• Use recommendation(s) to develop and implement an environmental action plan.</li><li>• Communicate, evaluate and justify personal views on environmental issues and alternate ways to address them.</li><li>• Analyze the effectiveness of the action plan in terms of achieving the desired outcomes.</li><li>• Implement the action plan.</li></ul>	
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Reference: *Investigating and Evaluating Environmental Issues and Actions* (2003), Hungerford. H., Litherland, R., Volk, T., Ramsey, J.M., Peyton, R.B., Stipes Publishing L.L.C.